

REMARKS

The claims have been amended to clarify the subject matter and remove multiple dependencies. The amended claims are further amendments from the annexes of the International Preliminary Examination Report. The amendments and newly added claims do not add any new matter within the meaning of 35 U.S.C. §132.

Early action on the merits is earnestly solicited.

Respectfully submitted,

NATH & ASSOCIATES PLLC

By: 

Gary M. Nath
Registration No. 26,965
Customer No. 20529

Date: February 28, 2002
NATH & ASSOCIATES PLLC
1030th Street, NW - 6th Floor
Washington, D.C. 20005
GMN/lis:24913.AMENDpreml

CLEAN COPY OF CLAIMS AS AMENDED AND ADDED

3. (Amended) Process according to claim 1, characterized in that dust is removed from the partial flow from the cold zone (36) of the sintering plant in one or more electric or filtering separators (32).
4. (Amended) Process according to claim 1, characterized in that the partial flow from the hot zone (38) of the sintering plant first undergoes dust removal before it is introduced into the CO catalyzer.
6. (Amended) Process according to claim 1, characterized in that the partial flow from the hot zone (38) of the sintering plant is additionally treated to reduce Nox content.
8. (Amended) Process according to claim 1, characterized in that the partial flow from the hot zone (38) has a mixing temperature of more than 180°C and the partial flow from the cold zone (36) a mixing temperature of less than 100°C.
9. (Amended) Process according to claim 1, characterized in that the dioxin and furan content in the partial flow from the cold zone (36) is less than 0.5 ng/m³ N.T.P.
10. (Amended) Process according to claim 1, characterized in that the two partial flows are approximately the same size under standard conditions.
11. (Amended) Process according to claim 1, characterized in that in the partial flow from the hot zone (38) a fan (26) is arranged behind the electric or filtering separator (34) and in front of the CO catalyzer (44).

CLEAN COPY OF CLAIMS AS AMENDED AND ADDED

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12. (Added) A process for treatment of gases that are exhausted through a sinter bed in a sintering plant, wherein a distinction can be made between a cold zone of the sintering plant with relatively low gas temperatures and a hot zone of said sintering plant with substantially higher gas temperatures, said process comprising the steps of:
- 5 separately exhausting said gases from said cold zone and from said hot zone, so as to obtain a partial flow from said cold zone and a partial flow from said hot zone;
- subjecting said partial flow from said cold zone and said partial flow from
- 10 said hot zone to a separate treatment;
- wherein the treatment of said partial flow from said hot zone includes:
- heating said partial flow from said hot zone in a CO-catalyzer by burning CO gas contained therein; and
- subsequently treating said partial flow from said hot zone in a catalyzer
- 15 for reducing hydrocarbons, in particular dioxins and furanes, contained therein.
13. (Added) The process according to claim 12, wherein said treatment of said partial flow from said cold zone of said sintering plant consists of a dust removal treatment.
- 20 14. (Added) The process according to claim 13, wherein said dust removal treatment of said partial flow from said cold zone takes place in one or more electric or filtering separators.
15. (Added) The process according to claim 12, wherein said partial flow from said hot zone of said sintering plant first undergoes a dust removal treatment before it is introduced into said CO-catalyzer.
- 25 16. (Added) The process according to claim 14, wherein said dust removal treatment of said partial flow from said hot zone takes place in one or more electric or filtering separators.

CLEAN COPY OF CLAIMS AS AMENDED AND ADDED

17. (Added) The process according to claim 12, wherein said partial flow from
said hot zone of said sintering plant is additionally subjected to a NOx
reducing treatment.
18. (Added) The process according to claim 17, wherein said NOx reducing
5 treatment comprises injection of NH₃ into said partial flow from said hot
zone of said sintering plant.
19. (Added) The process according to claim 12, wherein said partial flow from
said hot zone of said sintering plant has a mixing temperature of more than
180°C and said partial flow from said cold zone a mixing temperature of less
10 than 100°C.
20. (Added) The process according to claim 12, wherein the dioxin and furan
content in the partial flow from the cold zone is less than 0.5 ng/m³ N.T.P.
21. (Added) The process according to claim 12, wherein the two partial flows
are approximately the same size under standard conditions.
- 15 22. (Added) The process according to claim 12, wherein said partial flow from
said hot zone is exhausted by a fan through an electric or filtering separator,
said fan being arranged upstream of said CO-catalyzer.

MARKED-UP COPY OF CLAIMS AS AMENDED AND ADDED

3. (Amended) Process according to claim 1 [or 2], characterized in that dust is removed from the partial flow from the cold zone (36) of the sintering plant in one or more electric or filtering separators (32).
4. (Amended) Process according to [one of claims 1 to 3] claim 1, characterized in that the partial flow from the hot zone (38) of the sintering plant first undergoes dust removal before it is introduced into the CO catalyzer.
6. (Amended) Process according to [one of claims 1 to 5] claim 1, characterized in that the partial flow from the hot zone (38) of the sintering plant is additionally treated to reduce Nox content.
8. (Amended) Process according to [one of claims 1 to 7] claim 1, characterized in that the partial flow from the hot zone (38) has a mixing temperature of more than 180°C and the partial flow from the cold zone (36) a mixing temperature of less than 100°C.
9. (Amended) Process according to [one of claims 1 to 8] claim 1, characterized in that the dioxin and furan content in the partial flow from the cold zone (36) is less than 0.5 ng/m³ N.T.P.
10. (Amended) Process according to [one of claims 1 to 9] claim 1, characterized in that the two partial flows are approximately the same size under standard conditions.
11. (Amended) Process according to [one of claims 1 to 10] claim 1, characterized in that in the partial flow from the hot zone (38) a fan (26) is arranged behind the electric or filtering separator (34) and in front of the CO catalyzer (44).

MARKED-UP COPY OF CLAIMS AS AMENDED AND ADDED

12. - (Added) A process for treatment of gases that are exhausted through a
sinter bed in a sintering plant, wherein a distinction can be made between a
cold zone of the sintering plant with relatively low gas temperatures and a
hot zone of said sintering plant with substantially higher gas temperatures,
said process comprising the steps of:
- separately exhausting said gases from said cold zone and from said hot
zone, so as to obtain a partial flow from said cold zone and a partial flow
from said hot zone;
- subjecting said partial flow from said cold zone and said partial flow from
said hot zone to a separate treatment;
- wherein the treatment of said partial flow from said hot zone includes:
- heating said partial flow from said hot zone in a CO-catalyzer by burn-
ing CO gas contained therein; and
- subsequently treating said partial flow from said hot zone in a catalyzer
for reducing hydrocarbons, in particular dioxins and furanes, contained
therein.
13. (Added) The process according to claim 12, wherein said treatment of said
partial flow from said cold zone of said sintering plant consists of a dust
removal treatment.
14. (Added) The process according to claim 13, wherein said dust removal
treatment of said partial flow from said cold zone takes place in one or more
electric or filtering separators.
15. (Added) The process according to claim 12, wherein said partial flow from
said hot zone of said sintering plant first undergoes a dust removal treat-
ment before it is introduced into said CO-catalyzer.
16. (Added) The process according to claim 14, wherein said dust removal
treatment of said partial flow from said hot zone takes place in one or more
electric or filtering separators.

MARKED-UP COPY OF CLAIMS AS AMENDED AND ADDED

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17. (Added) The process according to claim 12, wherein said partial flow from said hot zone of said sintering plant is additionally subjected to a NOx reducing treatment.
- 5 18. (Added) The process according to claim 17, wherein said NOx reducing treatment comprises injection of NH₃ into said partial flow from said hot zone of said sintering plant.
- 10 19. (Added) The process according to claim 12, wherein said partial flow from said hot zone of said sintering plant has a mixing temperature of more than 180°C and said partial flow from said cold zone a mixing temperature of less than 100°C.
20. (Added) The process according to claim 12, wherein the dioxin and furan content in the partial flow from the cold zone is less than 0.5 ng/m³ N.T.P.
21. (Added) The process according to claim 12, wherein the two partial flows are approximately the same size under standard conditions.
- 15 22. (Added) The process according to claim 12, wherein said partial flow from said hot zone is exhausted by a fan through an electric or filtering separator, said fan being arranged upstream of said CO-catalyzer.- -